

# TRIZEL Epistemic Engine

## Phase-3 Deterministic Analytical Execution Framework

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*Controlled Public Technical Overview*

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*Governance scope: Layer-0 / Layer-1 / Layer-2 boundary clarification*

*Interpretive boundary: This document is a governed public-facing overview. It does not perform scientific interpretation, theory selection, explanatory inference, or publication-layer contract definition. Locked governance records and repository-level implementation remain authoritative.*

## Abstract

This document presents a controlled public overview of the Phase-3 deterministic analytical execution framework within TRIZEL. Its purpose is to describe the governance-safe execution sequence that structures observational materials before interpretation: preservation in DAILY, admissibility in ANALYSIS, pre-laboratory gating, laboratory-only experimental handling, and publication-layer presentation. It clarifies repository boundaries, admissibility rules, automation principles, and publication constraints without overstating architecture beyond what is currently governed and operationally evidenced.

## What TRIZEL means

**T - Traceability:** Every output must remain traceable to governed source state.

**R - Reproducibility:** Results must be reproducible under declared conditions.

**I - Integrity:** No silent mutation and no unauthorized regeneration.

**Z - Zero-State Awareness:** Null, dormant, or baseline states must be explicitly detectable.

**E - Evidence-First:** No claim without verifiable artifact.

**L - Layered Governance:** Authority, execution, and presentation remain separated.

## 1. Purpose and boundary

Phase-3 in its controlled public form is not a free-standing scientific treatise. It is a governance-linked execution description that explains how TRIZEL preserves evidence structures, validates admissibility, and constrains analytical handling prior to any downstream interpretive or publication activity. This document must therefore be read as a public technical overview, not as a replacement for locked governance records, repository contracts, or internal implementation references.

## 2. Canonical repository roles

TRIZEL preserves strict layer separation. The current canonical role allocation is as follows:

**DAILY:** authoritative preservation layer. It preserves source-backed daily or historical materials and records governance artefacts.

**ANALYSIS:** admissibility and execution layer. It admits only governed contract artefacts and performs analytical progression after admissibility.

**pre-LAB:** safety and reconciliation boundary. It exists to prevent uncontrolled ingress into laboratory work.

**TRIZEL-LAB:** experimental layer only. It receives governance-cleared material and does not rewrite canonical preservation state.

**Site / Layer-2:** presentation layer only. It publishes allowed artefacts and does not define live execution contracts.

### 3. Governed execution chain

The active execution order remains:

DAILY -> ANALYSIS -> pre-LAB -> LAB -> Publication/Site.

No forward movement is valid unless the preceding layer has completed with explicit evidence. A date is not eligible for ANALYSIS unless it has first been preserved in DAILY. A date is not eligible for LAB or publication merely because it exists visually on a site or within a draft narrative.

### 4. Current admissibility rule

The central admissibility contract currently enforced is intentionally narrow: ANALYSIS admits only `normalized_observation.json` from DAILY. DAILY raw materials, snapshots, manifests, and publication-layer files are not copied into ANALYSIS as admitted execution artefacts. Public or site-facing paths do not define or replace the operational contract.

### 5. Automation principle

TRIZEL now operates under the rule automation by default, human intervention by exception. This means routine preservation, governed handoff, admissibility, and downstream execution should proceed automatically when contracts are satisfied. Human review remains appropriate for blockers, drift, governance exceptions, or evidence mismatches.

## 6. Operational state description

At the time of this public release candidate, the DAILY -> ANALYSIS handoff path has been structurally established and brought into controlled production verification on live dates. Public representation of that state must remain conservative: the existence of automation, repository dispatch, and receiver logic can be described, but publication must not overclaim beyond the latest governed evidence recorded in repository workflows and merge history.

## 7. Publication-layer restriction

Layer-2 publication exists to present approved artefacts. It must not redefine repository contracts, operational state, admissibility rules, or live scientific authority. Site copy may describe boundaries, status, and artifacts, but it does not authorize interpretive expansion or architectural drift.

## 8. Public PDF serving requirement

For scholarly and technical discovery, the PDF artifact associated with this document must be publicly reachable through a direct URL. The target file should open directly without login barrier, CAPTCHA, redirect wall, or HTTP 404/403 response. This requirement is a publication-layer serving rule and does not modify the underlying execution contract of DAILY or ANALYSIS.

## 9. Discovery chain

The preferred public discovery order remains conservative: official identity anchor, governed public artefact, official landing page, then optional mirrors. Secondary mirrors may exist, but they must not become the source of truth for project scope, governance state, or execution architecture.

## 10. Governance-safe statement

This document is intentionally narrower than internal working records. It is designed to expose enough structure for public referencing and controlled deployment without releasing unnecessary implementation detail, speculative claims, or architecture that has not been explicitly locked through governance. Repository records, merge history, and governance documents remain authoritative where any ambiguity exists.

## Appendix A. Public-facing constraints

- Do not present publication-layer text as execution-layer authority.
- Do not publish interpretive or explanatory claims as if they were part of Phase-3 execution governance.
- Do not collapse DAILY, ANALYSIS, LAB, and site responsibilities into one layer.
- Do not treat the existence of a PDF or landing page as evidence that execution contracts are complete.
- Do not describe draft, candidate, or verification-in-progress material as final canonical architecture unless governance has locked it.

## Appendix B. Controlled public metadata

Recommended public metadata for this artefact:

Title: TRIZEL Epistemic Engine - Phase-3 Deterministic Analytical Execution Framework

Author: Abdelkader Omran

Affiliation: Independent Researcher, TRIZEL-AI

Status: Public release candidate

Boundary: Governance-safe technical overview

Interpretive boundary: No scientific interpretation or theory selection

## Final record

This public PDF is intended to support controlled citation, deployment recovery, and public reference without expanding TRIZEL beyond its governed scope. It should be read together with, and subordinated to, the authoritative repository and governance record.